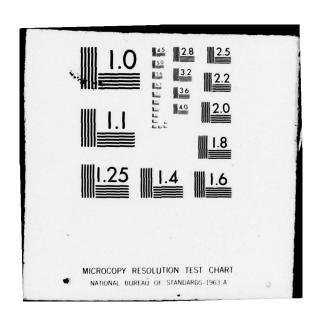
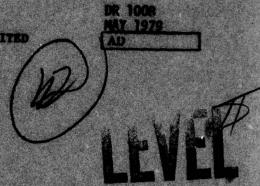
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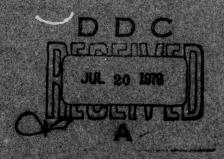
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HETEOROLOGICAL DATA REPORT

14021 Lance Missile No. 3390 Round No. 321 APT 2 May 1979

USHR Mateorological Team



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# CONTENTS

	P	AGE
INTRODUC	TION	1
DISCUSSI	ON	1
TABLES		
I.	Surface Observations Taken at LC-39	2
II.	Pilot-Balloon-Measured Wind Data, Release No. 1 at 1005 MDT -	3-5
111.	Pilot-Balloon-Measured Wind Data, Release No. 2 at 1029 MDT -	6-9
IV.	WSD Significant Level Data (Release Time: 1050 MST)	10
٧.	WSD Upper Air Data (Release Time: 1050 MST)	11-15
VI.	WSD MRN Significant Level Data (Release Time: 1050 MST)	16
VII.	WSD Mandatory Levels (Release Time: 1050 MST)	17
VIII.	WSD MRN Mandatory Levels (Release Time: 1050 MST)	18
IX.	JAL Significant Level Data (Release Time: 0915 MST)	19-20
X.	JAL Upper Air Data (Release Time: 0915 MST)	21-25
XI.	JAL MRN Significant Level Data (Release Time: 0915 MST)	26
XII.	JAL Mandatory Levels (Release Time: 0915 MST)	27
XIII.	JAL MRN Mandatory Levels (Release Time: 0915 MST)	28
XIV.	AFSWC Significant Level Data (Release Time: 0905 MST)	29
XV.	AFSWC Upper Air Data (Release Time: 0905 MST)	30-33
XVI.	AFSWC Mandatory Levels (Release Time: 0905 MST)	34
XVII.	AFSWC MRN Mandatory Levels (Release Time: 0905 MST)	35
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#### INTRODUCTION

14821A Lance, Missile Number 3390, Round Number 331 APT, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 1029 MDT, 2 May 1979. The scheduled launch time was 1015 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density  $(gm/m^3)$ , wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
  - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

### SITE AND ALTITUDE

LC-36 2160 meters (30-meter increments)

LC-36 3720 meters (30-meter increments)

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to balloon burst in 500-feet increments.

## SITE AND TIME

WSD 1050 MST

JAL 0915 MST

AFSWC 0905 MST

The data are presented in the following tabulations:

ELEVATION	4063.75	FT/MSL
PRESSURE	869.8	MBS
TEMPERATURE	23.7°	<b>°</b> C
RELATIVE HUMIDITY	26	*
DEW POINT	3	°C
DENSITY	1020	GM/M <sup>3</sup>
WIND SPEED	10	MPH
WIND DIRECTION	210	DEGREES
CLOUD COVER	1	Cu
CLOUD COVER	2	C1

TABLE I. SURFACE OBSERVATIONS TAKEN AT 1029 MDT, 2 MAY 1979 AT LC-39, 14821A LANCE, MISSILE NO. 3390, ROUND NO. 331 APT.

# PILOT BALLOON MEASURED WIND DATA (30 meter increments)

TABLE II						
RELEASED FROM	LC-36	_DATE	2 May 1979	TIME	1005	MDT
RELEASE POINT CO	ORDINATES (WSTM	) X= <u>502</u>	,452.98 Y=	190,654,50	H= 4043.49	
MISSILE TYPE 14	821A Lance MISS	ILE NO	3390	ROUND NO	331 APT	
MISSILE LAUNCHED	FROM LC-39	DAT	E 2 May 1	979 TIME_	1029	_ MD'
NOTE: WIND DIRE	ECTIONS ARE REFE	RENCED TO	THE FIRING	AZIMUTH		
OR TRUE NORTH	TRUE NORTH	·•				

HEIGHT mtrsAGL	DIRECTION DEGREES	SPEED MPH
SFC	230	16.0
30	224	15.5
60	218	14.5
90	212	14.0
120	206	13.0
150	205	15.0
180	205	16.5
210	204	18.5
240	203	20.0
270	204	19.5
300	205	18.5
330	206	18.0
360	207	17.0

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
390	210	17.0
420	212	16.5
450	214	16.5
480	216	16.0
510	218	17.0
540	220	17.5
570	222	18.0
600	223	18.5
630	225	19.5
660	227	20.0
690	229	21.0
720	231	21.5
750	231	21.0

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
780	231	20.0
810	231	19.0
840	231	18.0
870	234	18.0
900	236	18.0
930	_238	18.0
960	240	17.5
990	242	18.5
1020	244	19.0
1050	246	19.5
1080	248	20.0
1110	249	21.0
1140	250	22.0
1170	251	23.0
1200	252	23.5
1230	253	24.0
1260	253	24.0
1290	253	24.5
1320	253	24.5
1350		
1380	255 256	25.5
1410	257	27.0

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
1440	258	27.5
1470	255	29.5
1500	251	31.0
- 1530	248	32.5
1560	244	34.0
1590	246	36.0
1620	247	37.5
1650	248	39.5
1680	249	41.0
1710	249	42.5
1740	249	44.0
1770	249	45.5
1800	249	47.0
1830	249	· 48.0
1860	249	49.0
1890	249	50.0
1920	249	50.5
1950	249	51.5
1980	248	<b>52.</b> 0
2010	248	52.5
2040	247	53.0
2070	247	53.5

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
2100	246	54.0
2130	246	54.5
2160	245	55.0
2190		100
2220		
2250		
2280		
2310		
2340		
2370		
2400		100
2430		
2460		1000
2490		
2520		-
2550		Alia.
2580		
2610		888
2640		The state of
2670		384 6
2700		
2730		

HEIGHT mtrs <b>AGL</b>	DIRECTION DEGREES	SPEED MPH
2760	12.32.02	
2790		
2820		
- 2850		
2880		me ser il
2910		
2940		
2970		
3000		
3030		
3060		

# PILOT BALLOON MEASURED WIND DATA (30 meter increments)

TABLE III								
RELEASED FROM_	LC-36	DATE	2 May 19	79	TIME_	1029		_MDT
RELEASE POINT C	OORDINATES (W	STM) X=_5	02,452.98	Y= 190	.654.50	_H=_	4043.49	
MISSILE TYPE 14	321A Lance M	ISSILE NO.	3390		ROUND NO.	331	APT	
MISSILE LAUNCHE	D FROM LC-39	D	ATE 2 May	1979	TIME	1029		MDT
NOTE: WIND DIR	ECTIONS ARE R	EFERENCED	TO THE FIR	ING AZII	MUTH			
OR TRUE NORTH	TRUE NORTH							

7	HEIGHT mtrsAGL	DIRECTION DEGREES	SPEED MPH
-	SFC	230	16.0
	30	235	13.5
	60	229	11.0
	90	224	08.5
	120	218	06.0
	150	219	09.5
	180	219	12.5
	. 210	220	16.0
	240	220	19.0
	270	222	20.0
	300	223	21.0
	330	225	22.0
	360	226	23.0

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
390	226	23.0
420	225	22.5
450	225	22.5
480	224	22.0
510	223	21.5
540	221	21.0
570	219	20.5
600	217	20.0
630	220	19.5
660	223	18.5
690	226	18.0
720	228	17.0
750	230	17.5

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
780	231	17.5
810	232	17.5
840	233	17.5
870	237	18.0
900	241	18.5
930	245	19.0
960	249	19.0
990	250	19.0
1020	250	19.0
1050	251	19.0
	251	19.0
1080	254	19.5
1110		
1140	256	20.0
1170	259	20.5
1200	261	21.0
1230	261	21.5
1260	261	20.5
1290	261	20.5
1320	260	20.0
1350	258	21.5
1380	255	22.5
1410	253	23.5

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
1440	250	24.5
1470	250	24.5
1500	250	24.0
- 1530	250	24.0
1560	249	23.5
1590	251	24.5
1620	253	25.0
1650	255	26.0
1680	256	26.5
1710	256	29.5
1740	256	32.0
1770	256	34.5
1800	255	37.0
1830	254	39.5
1860	253	41.5
1890	252	43.5
1920	250	45.5
1950	249	47.5
1980	247	49.0
2010		
	246	50.5
2040	244	52.0
2070	244	52.0

HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
2100	243	52.0
2130	243	52.0
2160	242	52.0
2190	242	51.0
2220	241	<b>50</b> .0
2250	241	49.0
<b>2</b> 280	240	47.5
<b>23</b> 10	240	47.5
2340	240	47.0
2370	240	47.0
2400	240	46.5
2430	239	46.0
2460	237	45.5
2490	236	45.0
2520	234	44.0
2550	235	44.0
2580	235	44.0
2610	236	44.0
2640	236	43.5
2670	237	44.0
2700	237	44.0
2730	237	44.5

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HEIGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
2760	237	44.5
2790	238	46.0
2820	238	47.0
- 2850	239	48.0
2880	239	49.0
2910	240	50.5
2940	241	51.5
2970	242	53.0
3000	242	54.0
3030	243	53.5
3060	243	53.0
3090	243	52.5
3120	243	51.5
3150	243	52.0
3180	242	52.0
3210	241	52.5
3240	240	02.5
3270	242	53.0
3300	244	53.0
3330	246	53.0
3360	248	53.0
3390	248	54.0

Page 4 of 4 Pages

HEYGHT mtrs AGL	DIRECTION DEGREES	SPEED MPH
3420	248	55.0
3450	248	56.0
3480	247	57.0
3510	247	58.5
3540	247	60.0
3570	247	61.5
3600	246	62.5
3630	247	62.5
<b>366</b> 0	248	62.5
<b>36</b> 90	249	62.5
3720	249	62.0

DATA		
SIGNIFICANT LEVEL	1220020199	WHITE SANDS
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UPPER AIR DATA 1220020199 WHITE SANDS

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3969.0		26.5	3.7	23.0	018.	678.5	200.0		1.000261
4000		26.4	3.6	23.0	018	475.4	2000	0	000
4500		22.9		8000	1013.3	671.5	208.5	10.6	3 6
5000.0		20.5		25.3	000	200	215.1	11.4	2000
200	833.5	18.0		27.5	000	1	251.0	12.4	
		17.6	7.	0.00	078.6	665	0.122	13.5	*2000
		0.91		9.02	045.0	2000	227.6	16.7	
		14.5		30.1	953.3	661.6	228.6	15.1	
		13.1	2.6-	33.6	041.0	9 0	2000	15.0	200
		11.7	2.5	35.1	0.400	658.2	233.7	16.6	1.00023
		10.2	- 4-0	36.6	916.8	656.5	237.3	17.3	
		8.8	-4.7	38.1	905.0	24	241.7	18.6	
		7.3	5.5	39.6	893.3	2 4	247.4	8.00	
-	707.8	5.9	-6.3	41.1	881.9	651.4	252.1	23.1	1.000215
:		***	8.6-	34.6	870.7	9.649	248.6	26.7	•
		3.4	-14.7	25.0	58.	648.2	245.9	30.3	1.000201
:		5.6	-16.2	23.3	9.448		242.5	33.1	-
÷		1.9	-17.8	21.5	831.1	4.049	238.7	35.4	
÷		1.1	-19.5	19.7	818.0	645.	235.4	37.6	-
:		r.	-21.2	18.0	805.0	. 449	233.6	38.4	-
•			-22.2	18.0	793.3		231.8	39.5	1.000182
=		-2.1	-23.2	18.0	781.8		231.7	40.1	
:		7.5-	-54.5	18.0	770.5	640.1	232.9	41.2	1.000176
:		9:00	-25.3	0	759.4		235.1	44.1	-
:		-5.8	-26.3	18.0	748.4		237.5	48.3	1.000170
•		-6.7	-27.0	18.0	736.4		239.4	51.2	•
:		-7.5	-27.6	18.0	724.2	635.1	240.4	52.9	1.000165
:		-8.5	-28.2	18.0	712.2	634.3	239.8	52.3	-
•		-9.3	-29.1	18.0	701.1	633.0	238.7	51.6	1.000159
-		-10.5	-30.5	18.0	8.069	631.4	237.9	51.4	1.000157
8500.	210.7	-11.8	-31.3	18.0	680.6	658.9	238.3	52.5	1.000154
19000.0	2000-7	-13.1	-32.3	18.0	9.029	628.3	238.9	54.6	1.000152
19500.0	4.00.6	-14.3	-33.3	18.2	660.1		239.4	57.9	1.000149
	480.6	-15.6	-34.2	18.4	8.649	625.3	239.8	59.5	1.000147
:	470.9	-16.8	-35.1	18.5	639.7		240.2	60.1	-
÷	461.3	-18.0	-36.0	18.7	629.7	622.4	240.5	61.0	.0001
÷	452.0	-19.5	-37.0	18.9	619.9		240.8	62.1	0014
:	442.8	-20.4		19.1	610.3	619.4	241.0	4.49	.00013
:	433.0	-21.7	-38.0	10.3	0				
			•	7.17	0.000		241.1	66.3	1.000135

ATION AL MAY 79 CENSION	ATION ALTITUDE 3989.00 FEET MSL MAY 79 1050 HRS MST CENSION NO. 199	89.00 FE	ET MSL MST		UPPER AIR DATA 1220020199 WHITE SANDS	DATA 99 0S		6E0DET1 32.	GEODETIC COORDINATES 32-40043 LAT DEG 106-37033 LON DEG	
OMETRIC TITUDE L FEET	PRESSURE. MILLIBARS	TEMI AIR DEGREES	OMETRIC PRESSURE TEMPERATURE F TITUDE AIR DEWPOINT F L FEET MILLIBARS DEGREES CENTIGRADE	REL . HUM. PERCENT	REL.HUM. DENSITY SPEED OF PERCENT GM/CUBIC SOUND METER KNOTS	SPEED OF SOUND KNOTS	WIND DATA DIRECTION SPEED DEGREES(IN) . KNOTS	SPEED SPEED . KNOTS	INDEX OF REFRACTION	
23500.0	416.4	-24.1	23500.0 416.4 -24.1 -40.7 19.6	19.6	582.4	582.4 614.9	241.1		68.1 1.000131	

ASCENSION NO. 1	•	1050 HRS MST	MST		WHITE SANDS	S		32. 106.	106.37033 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	ā	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	REL . HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DAT DIRECTION DEGREES(TN) .	SPEED . KNOTS	INDEX OF REFRACTION
-		-24.1	7-04-	19.6	582.4	614.9	241.1	68.1	1.000131
		-25.3	-41.7	19.8			241.0	00	1.000129
		-26.5	-42.6	20.0	564.5	6111.8	241.0	70.7	1.000127
-		-27.6	63.5	20.0	555.1		241.4	72.0	1.000124
		-28.6	777-		545.8		20110	75.0	1.000122
		-29.6	-45.3	20.0	536.5		242.1	78.0	1.000120
26500.0	367.1	-30.6	-46.1	20.0	527.2	806.8	242.4	78.8	1.000118
		-31.5	6.94-	20.0	518.0		242.4	77.6	1.000116
-		-32.4	-47.7	20.0	509.0	604	242.4	75.9	1.000114
-		-33.5	-48.6	20.0	500.4	603.1	242.2	74.0	
		-34.7	9.64-	20.0	492.0	601.6	241.9	72.3	•
		-35.9	-51.2	18.8**	483.8	600.1	241.8	71.0	1.000108
		-37.2	-54.5	14.4*	476.0	598.4	241.7	71.6	•
-		-38.6	-58.6	6	466.2	596.7	241.8	74.6	7
		-39.9	-64.1	5.5**	460.7	595.0	241.7	79.5	-
		-41.3	-76.0	7	453.2		241.5	86.1	1
		-45.5			445.4	591.	241.0	88.8	1.00009
		-43.7			437.6	590	240.3	89.8	1.00009
		6.44-			430.0	588.	239.8	87.0	-
33000		-46.1			455.4	587.	239.5	84.8	_
		-47.3			415-1	585.	239.2	83.4	
		1.81-			407.8	584.	239.0	81.6	1.000091
		9.64-			400+	585	238.8	79.3	1.000089
		-50.8			393.8	580.9	238.6	76.0	1.000088
		-52.0			386.7	579.	238.4	79.5	1.000086
		-53.2			379.8	577.	238.2	96.0	1.000085
		-24.4			372.9	576.	238.0	7.46	1.000083
		-24.6			364.6	575.	237.5	95.5	1.000081
		-24.9			356.5	575.6	236.8	79.7	•
28000-0		-55.1			348.5	575.3	236.5	64.3	1.000078
-		125.4			240.7	574.9	236.4	24.4	
		20.00			333.0	574.	237.1	26.6	
2000		-55-8			325.6	574.	237.5	65.5	1.000073
9		7.95			318.4	573.8	237.7	16.6	·00001
900		20.0			311.7	573.0	237.8	81.7	•00000
		-			305.1	572.3	237.8	•	•0000
•		20.0			298.6	571.5	237.6	•	1.000067
•		0.00			292.3	570.7	237.7	2	•
		1.69			286.1	569.9	237.5	84.0	1.000064
•					0.002	269.1	2.162	ż	•

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

32.9 1.000027 33.0 1.000026 33.1 1.000026 24.3 1.000025 15.4 1.000024
2.2 564.5 245.2 9.2 569.3 248.3 5.3 570.1 253.9
112 109 106.
0.65-
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STATION ALTITUDE 2 MAY 79 ISCENSION NO. 1	0	3989.00 FEET M 1050 HRS MST 9	T MSL MST		UPPER AIR DAT 1220020199 WHITE SANDS	DATA 199 105		GEODETIC 32.40 106.3	ETIC COORDINATES 32.40043 LAT DEG 06.37033 LON DEG	
SEOMETRIC ALTITUDE ASL FEET	PRESSURE MILLIBARS	AIR JEGREES	TEMPERATURE AIR DEWPOINT GREES CENTIGRADE	REL.HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION	
63500.0		-58.6			101	-	7	-		
64000	629	200			9.501		7.052	9.01	500000	
64500	33	200			101		0	•		
0.000	200	6.60			2.66	266.7	1.697	9.0	1.000022	
0.00000	· / /	0.00			97.2		9	4.0		
0.00000	27.	-61.3			95.2		60	7.1		
0.00099	26.	-61.4			93.0	566	60	9.9		
66500.0	52.	9.09-			4.06	26	90	6.1		
67000.0	53.	-59.9			97.9	569.0	261.5	5.1	1.000020	
57500.0		-59.0			85.5	570.1	263.9	3.8		
68000.0	51.	-58.2			83.1	571.1	267.5	5.6	1.000019	
	20.	:			80.9	572.2	268.2	1.9		
		-56.9			78.8	572.9	269.8	1.2		
		-56.4			76.7	573.5	300.9	1.6	1.000017	
		-56.7			75.0	573.2	317.5	2.3		
		-57.0			73.3	572.8	324.6	3.5		
		-57.3			-	572.4	327.4	5.0		
		-57.5			70.1	572.1	326.4	6.1		
	45.	-57.8				571.7	316.0	5.9	1.000015	
	41.	-58.1			67.0	571.3	305.1	5.8		
	*0*	-55.7			2.49	574.5	287.0	5.5		
		-54.5			62.7	576.4	267.7	5.7		
	38.	-53.9			61.2	576.9	254.8	0.9		
74500.0		-53.6			29.7	577.3	244.8	6.1		
	36.	-53.2			56.2	577.7	534.9	4.9	1.000013	
	35	-52.3			26.6	579.0	225.2			
	.55	-51.0			55.0	580.7	217.7	7.3	-	
		9.64-			23.4	585.5	555.6	7.8	-	
0.000		2.64			52.1	585.8	556.9			
0.0000	32.	2.65-			20.9	583.1	237.1	9.8		
18000-0	35	0.65-			46.1	583.3	548.5	9.1	-	
	31.6	8.8				583.5	254.3	6.6	1.000011	
_		0.80			:	583.7	524.6	10.5	-	
_		200			•	584.1	254.5	11.1	-	
00000	20.00				45.1	584.7	548.0	11.8	1.000010	
	2000				;	585.3	240.0	12.5	-	
0.0000	23.3	-			·	585.9	:	13.0	1.000010	
:	2012	0.00			6.14	60		13.3		
	20.00	1.00				587.0		13.6		
:	200	0.0			39.9	587.6	237.5	13.5	1.000009	
•	55.4	12.5			38.9	584.2	÷	ė	.00000	

3989.00 FEET MSL 1220020199 GEODETIC COORDINATES 1050 HRS MST WHITE SANDS 106.37033 LON DEG	URE TEMPERATURE REL.HUM. DENSITY SPEED OF WIND DATA INDEX AIR DEWPOINT PERCENT GMZCUBIC SOUND DIRECTION SPEED OF ARS DEGREES CENTIGRADE METER KNOTS DEGREES(IN) 'KNOTS REFRACTION	-44.8 37.9 588.7 228.1 13.9	44.9 45.0 45.0 1000008	35.5 586.4 214.7 15.2 1	-45.1 -45.2 33.9 589.2 206.6	-45.2	45.4	-45.5 168.4 7.3	0.071	-44.5 -44.5 -44.5 -44.5	-44.1	-43.6 27.5 590.2 211.8	<b>-43.2</b> 24.3.2	<b>-42.8</b> 221.7		-41.9	
1TUDE 3989.00 1050	PRESSURE AILLIBARS DEGR	6.	9.0	3.5	22.2 -45		8.0	50	0.5	0.6	8.5	1.0	7.7	7.3	2.0	9.9	•
STATION ALTITUDE 2 MAY 79 ASCENSION NO. 19	GEOMETRIC ALTITUDE MSL FEET M	83500.0	84500.0	85000.0	86000.0	86500.0	87500.0	88000.0	89000.0	0.00568	0.00006	90500.0	91000.0	91500.0	92000.0	92500.0	

STATION ALTITUDE 3989.00 FEET MSL 12 MAY 79 1050 HRS MST WHAT 1050 HRS MST WHAT WENT WASCENSION NO. 199

MRN SIGNIFICANT LEVEL DATA 1220020199 WHITE SANDS

6E0DETIC COORDINATES 32-40043 LAT DEG 106-37033 LON DEG

GEOPOTENTIAL		CNTA	DATA			TEMPERATURE	
ALTITUDE DECAMETENS	DIRECTION DEG (TN)	SPEED	N-N-S-W-S	MPS *	DEW PT DEP DEG C	AIR DEG C	PRESSURE MILLIBARS
2834.	***6666	***6666	*** 6666-	•	66	-41.1	1.590+1
2679.	155.	ņ	3.		66	-45.5	2.000+1
2530.	229.		5.		66	8. 11-	2.500+1
2409.	255.	•	1.		66	-48.5	3.000+1
2323.	223.	;	'n		66	-49.5	3-420+1
2283.	231.	÷	2.		66	-53.1	3.640+1
2224.	277.	÷	•		66	-54.4	3.990+1
2202.	305.	ů.	-5.		66	-58.1	4 - 130 + 1
2109.	299.	.1	ė		66	-56.4	4.780+1
2081.	268.	1.	•		66	-57.4	2.000+1
1999.	261.	'n	:		66	61.7	5.700+1
1927.	258.	•	1.		6 <b>6</b>	-58.5	6.400+1
1871.	243.	17.	8		66	-60.7	7.000+1
1836.	232.	12.			66	-60.7	7-400+1
1698.	* ##	12.	-6-		66	1.64-	9.180+1
1681.	42.	12.	-6-		66	-59.8	9.440+1
1645.	23.	<b>.</b>	-7.		66	-60.8	1.000+2

9 \*\* WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

11.3 14.6 17.2 25.2
214.4 227.9 236.8 249.9
31.
5.0
650.0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

ORY	201	
TACNAM	12200201	
MRN		
	MSL	
	EET MSI	-

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	TEMPERATURE PRESSURE		-45.5 2.000+1	-4.4.8 2.500+1	-48.5 3.000+1		-57.4 5.000+1	-60.3 6.000+1	-60.7 7.000+1				7		~							-7.6 5.500+2			5.0 7.000+2	2	9	20.3 . 8.500+2
•	DEW PT DEP		66	66	66	66	66	66	. 66	66	66	66	66	66	66	66	66	15	16	18	19	20	21	20	12	14	17	21
MANDATORY LEVELS 1220020199 WHITE SANDS	N ZE	ē	-7-	2.	5.	'n	:	÷.	15.	.5-	.: <u>-</u>	42.	25.	36.	31.	33.	*0#	34.	32.	.83	54.	24.	17.	16.	12.	7.	•	÷.
Z	DATA N-S MPS	1	'n	S		i	•	•	.8	5.	-7.	17.	15.	23.	20.	20.	22.	18.	17.	16.	15.	13.	13.	10.	ŧ.	v	ທໍ	ņ
T MSL	WIND DATA SPEED N.		3.	7.	•	3.	:	÷	17.	÷	.0	*6.	29.	43.	37.	39.	45.	39.	36.	35.	28.	27.	21.	19.	13.	•		ė
DE 3989.00 FEE' 1050 HRS N	DIRECTION DEG (TN)		157.	230.	255.	281.	268.	267.	243.	123.	25.	248.	238.	237.	238.	239.	241.	242.	241.	241.	529.	240.	233.	237.	520.	237.	228.	. 412
STATION ALTITUDE 3989.00 FEET MSL 2 may 79 1050 HKS MST ASCENSION NO. 199	GEOPOTENTIAL ALTITUDE DECAMETERS		2679.	2530.	5409.	2222.	2081.	1967.	1871.	1787.	1645.	1506.	1391.	1295.	1211.	1068.	.246	840.	745.	.629	11		.80	. 476	314.	257.	203.	1101

STATION ALTITUDE 4051.00 FEET MSL 2 MAY 79 0915 HRS MST ASCENSION NO. 49

REL.HUM. PERCENT	4 8 8 8 8 8 8 7 7 7 7 7 7 7 7 8 8 8 8 8	
PERATURE DEWPOINT CENTIGRADE	04111111 041111111111111111111111111111	
TEMPE AIR DEGREES	11111111111111111111111111111111111111	
GEOMETRIC ALTITUDE MSL FEET	4051.0 4372.4 4372.4 9372.4 938.2 1008.2 10022.6 11525.5 11525.5 11525.5 11525.5 11525.5 11525.5 11525.5 11525.5 11525.5 11525.5 34740.7 34740.7 34740.7 34756.1 37	87
PRESSURE MILLIBARS	0.000 0.000	

STATION ALTITUDE 4051.50 FEET MSL 2 MAY 79 0915 HRS MST ASCENSION NO. 49

SIGNIFICANT LEVEL DATA 1220030045 JALLEN

GEODETIC COORDINATES 33-16712 LAT DEG 106-49511 LON DEG

REL.HUM. PERCENT

TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE -46.0 -45.4 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 82320.9 85757.7 87660.0 95686.4 25.5 21.8 20.0 13.9

STATION ALTIT 2 MAY 79 ASCENSION NO.	UDE 4	4051.00 FEET MSL 0915 HRS MST	ET MSL MST		UPPER AIR DAT 1220030049 JALLEN	9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9		33.1 106.4	DETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	ō	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	REL . HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION SP DEGREES(TN) KN	SPEED KNOTS	INDEX OF REFRACTION
•	870.0	22.0	9.5	0.44	1021.7	671.0	195.0	17.1	1.000278
÷	856.3	18.7	3.5	36.5	18.	1.999	202.4	18.0	1.000262
÷	841.2	17.2	1.8	35.5	1006.2	8.499	209.7	19.3	•
÷	826.3	15.8	1.5	38.5	993.2	663.2	217.2	20.0	
÷	811.4	14.4	1.3	41.0	•	661.0	226.3	6	•
6500.0	796.8	13.0	1.0	43.9	967-1	0.099	227.8	20.2	
: :	768.3	0.11		0.00	5.406	200	2.022	50.6	#2000·
:	754.5	8.9	3 17	52.7		•	7.7.6	21.7	
:	740.8	7.5	7	55.9	916.9	653.6	229.1	23.1	1.000232
:	727.2	0.9	-1.2	59.9	2.406	51.	230.7	24.6	1.000229
·	713.8	9.4	-1.7	63.8	892.7		232.5		1.000225
•	200.6	5.9	9.4-	56.9	882.1	648.0	234.4	23.0	1.000218
•	687.5	2.0	6.9-	51.6	868.6	6.949	235.5	:	1.000212
•	674.7	1.2	-8.8	6.94	855.0	6.549	235.7	26.7	1.000206
•	662.0	*	-10.9	45.2	841.7	6.449	235.8	30.8	1.000201
·	649.5	-1.0	-53.5	16.6	831.1	642.8	235.7	6	1.000190
12500	637.3	-1.5	-24.5	14.9	815.8	645.6	238.2	45.3	1.000186
•	625.2	-1-3	26	13.1	8000		540.4	ò	1.000182
•	013.5	1.0	-27.4	12.0	787.1		242.5	· ·	1.000179
• !	2005		7.83-	12.0	1.5.1		240.0	· ·	0000
	578.7	1	1.63		75.0	7,5	0.000		71000
	567.6	2.9-	0.00	12.0	240.5	635.6	246.7	0 0	1.000170
•	556.7	-7.3	-31.8	12.0	729.3	635.3	243.3	. 0	0001
•	546.0	1-8-	-32.6	12.0	718.3	634.0	245.2		1.000162
•	535.4	-9.7	-33.5	12.2	7.707	632.4	241.8	54.0	1.000160
•	524.9	-11-0	1.46-	12.4	697.5	630.9	244.0	52.8	1.000157
•	0.416	-12.4	-35.3	12.6	687.4	629.1	246.1	51.7	1.000155
•	2000	13.8	-20.3	12.9	4.2.4	627.5	246.3	51.7	1.000152
•	200	1.51	-37.1	13.2	667.2	655.9	240.4	51.8	00015
	474.4	-17.6	-18.7	17.7	7.000	0 000	\$ 0 to	000	1.000148
500	464.7	-18.8	-39.5	14.0	636-4		246.5	, 4	1.000143
1000	455.3	-20.0	4.04-	14.3	626.5		246.4	60.5	1000
÷	0.04	-21.3	-41.2	14.5	616.7		246.4	63.1	- 10
:	20.00	-22.5	-42.0	14.8	607.1		546.5	66.1	0001
:	1.85.	-23.7	45.9	15.1	597.7	3	546.5		1.000134
235000-0	2.61	125.0	8.5	15.4	580.5	613.8	240.5	71.3	1.000132
:		7.07	0.34	0:01	2.9.4	·	5.0t.7		1.000130

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMP AIR DEGREES	TEMPERATURE AIR DEWPOINT EGREES CENTIGRADE	REL . HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION S DEGREES(TN) K	SPEED KNOTS	INDEX OF REFRACTION
ė		-27.4	-45.5	15.9	570.4	610.7	246.3	75.3	1.000128
4500.0	393.	-28.6	1.91-	16.0	561.1		246.3	77.7	1.000126
	385.	-29.7	-47.3	16.0	551.8			9008	1.000123
	377.	-30.8	-48.3	16.0	542.6	606.5		85.0	1.000121
	369.	-31.9	-49.2	16.0	533.6		247.6	87.6	1.000119
	361.	-32.8	-50.9	14.3**	524.2			88.5	1.000117
	353.	-33.6	-54.0	10.7**	514.5			87.1	1.000115
	346.	-34.3	-57.8	7.1**	505.0		20.	85.3	1.000113
	338.	-35.0	-63.8	3.5**	495.7			83.6	1.000110
	331.	-35.7			486.5		250.2	8.4.4	1.000108
	324.	-37.1			478.5		549.4	85.2	1.000107
	317.	-38.4			470.7		248.7	85.5	1.000105
	310.	-39.7			463.0		248.0	84.7	1.000103
	303.	-41.0			455.4		247.3	82.4	1.000101
	296.	-42.3			447.8		240.0	80.3	1.000100
	290.	-43.6			2.044		546.5	78.8	1.000098
	283	0.44-			432.6		240.3	77.2	1.000096
	27.0	10.0			425.2		1.017	10.6	560000-1
	2000	0			0.01		0.0	14.1	660000-1
	200				N. P. C.		0 : 5 : 6	20,00	260000-1
34500	252	191			4004		244.0	0 4 . 1 . 0	840000
500000	247.	-52.2			389.4		243.1	85.3	1.090067
	241.	-52.7			381.1		242.4	88.1	1.000085
600000	235.	-53.1			373.0		241.8	400	1.000083
0.0050	230.	-53.6			365.1		841.8	91.7	1.000081
-0000	224.	-54.5			358.1		241.9	92.3	1.000080
120000	219.	-55.7			351.7		242.1	87.8	1.000078
	214.	-56.4			344.5		242.3	83.2	1.00007
38500.0	209	-57.0			337.5	572.7	245.3	78.3	1.000075
	100	200			2.000		0.142	0 .	1.000074
		200			26202			200	2,0000.1
0500	190.0	-57.5			2010	570.0	0.00	N	0,0000-1
	185.	-58.1				571.3	232.4		1.000047
:	181.	-58.6				570.6	230.1	3.46	1.000065
	176.	-59.1				540.0	228.3	50.6	1.00006
	172.5	-59.7			281.4	569.2	30	50.6	
	168.4	40.2							
		۰			2/3:4	566.5		50.7	1.000061

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUD 2 MAY 79 ASCENSION NO.	w *	4051.00 FEET MSI 0915 HRS MST 9	T MSL MST		UPPER AIR DAT 1220030049 JALLEN	49		6E0DETIC 33-1 106-4	ETIC COOKDINATES 33.16712 LAT DEG 06.49511 LON DEG
GEUMETRIC ALTITUDE MSI FFET	PRESSURE	TEMF AIR	TEMPERATURE R DEWPOINT FEC CENTIONS	REL . HUM. PERCENT	DENSITY GM/CUBIC	SPEED OF	WIND DAT	SPEED	INDEX
יויים ויוים	-	חרפערבי	CLIN TOWARD		7 7 7	200	OF GALES 1 19	200	MET HAC I TON
	0	-61.0			263.4	567.4	35.	45.4	1.000059
44500.0	÷	-61.1			57.	567.3	237.9	42.2	.00000
2000	i	-61.2			251.0	u,	+00	1.	.00000
42200.0	6				245.1	'n	243.2	33.3	.00000
46000.0	ŝ.	-61.8			239.8	ימו	. 94	33.1	.0000
0.00000		-62.3			234.5		200	•	0000
47500.0		162.9			229.4	504.9	200	1000	1.000051
48000.0	131.8	-62.0			217.5	566.1	253.1	- 3	1.000050
	÷	-62.5				565.4	252.B	59.3	10000
	25.	-63.0			208-1		252.4	63.7	1.000046
	55.	-63.5					. 252.1		1.000045
	5	-64.1			199.0	563.	252.1		1.000044
	2 :	-63.3			193.5	564.3	252.2	71.3	1.000043
0.00016	2:	-62.4			÷.	565.5	253.3		
.00016	7 0	9.19-			i	560.7	200.4	60.5	+00000
25000.0	200	27.0			1/0.8	569.0	201.5	52.7	•
530000	2 6	4.10			1.0.1	5,775	2000	÷ c	-
53500.0	100.8	-51.7			153.6	579.7	254.1	38.7	1.000037
24000.0	86	-51.3			154.6	580.2	251.1	38.3	
24500.0	8	-52.3			151.7	579.0	17.		•
22000-0	6	-53.2			148.8	577.8	544.8	38.4	1.000033
0.00000	- 0	-54.2			145.9	576.5	241.8	38.7	1.000032
0.00000	ח ת	1.22-1			143.1	575.3	240.5	34.5	
0.00074	85.5	-57.0			140.4	573 7	236.6	0.60	1.000031
57500.0	'n	-57.8			135.0	571.7	229.0	13.4	1.000031
5800000	81.4	-58.3			132.1	571.0	185.5	5.0	1.000029
28500.0	79.5	-58.8			129.2	570.4	103.3	7.1	1.000029
	17.6	-59.3			•	569.8	4.73	0	1.000028
	13:	-59.7				569.1	80.0	15.1	1.000028
0.00000	13.3	2.09-				568.5	72.4	13.5	1.000027
0.00014	70.07	200			118.3	567.8	3.60	10.5	1.000026
	68.7	-61.3			113.1	201.6	700	100	
62000.0	67.1	-61.4				56.69	351.3		•
62500.0	65.5	-61.5			107.7	5,000	330.0		1.00002
	63.9	-61.0			. 70	507.4	329.4		
	62.4	-59.2			17.	(0	21.	7.0	1.000023

DETIC COORDINATES 33.16712 LAT GEG 106.49511 LON DEG	INDEX OF REFRACTION	1.000022	1.000021	1.000021	1.000021	.0000	00000	1.000019	10000	10000	8100001	1.00001		1.000016	1.000016	1.000015	.00001	10000.	10000	10000	1000001	10000	10000	1.000012	0000	.00001	1.000011	0000	1.000010	1.000010	1.000010	1.000010	600000.1	6000001	5000001	1.000000	1.000008
6E0DETIC 33.1	SPEED KNOTS	5.8	6.4	4.6		6.3	2.0	4.7	**	S	7.					t .		6.5	2		0.0	0.5	6.9	7.3	7.9	0 0	10.5	11.5	12.7	14.0	15.3	16.5	91	101	0	18.8	18.3
	DEGREES(TN)	309.6	292.0	5.697	255.9	255.0	254.1	255.2	529.1	204.3	207	0.797	2008	269.4	270.1	271.5	273.1	274.5	274.1	2.012	4.040	265.6	262.3	258.3	254.5	5.162	247.7	240.5	245.8	245.5	245.2	243.1	242.5	245.6	245.0	240.5	540.4
94 TA	SPEED OF SOUND KNOTS	572.4	571.5	5.075	569.5	9	567			568.8			200	571													580		582.8	584.0	582.9	583.0	1000	583.2			585.1
UPPER AIR DMT 1220030049 JALLEN	DENSITY S GM/CUBIC METER	98.2	96.2		92.3	;	88.6	86.5	84.2	82.0	17.0	75.7	73.7	71.9	70.2	9.99	67.0	65.4	63.9	4.70	90.00	57.6	56.0	54.5	52.0	50.0	40.5	47.5	46.3	45.2	44.2	1.01	7.74	2.71	39.3	34.3	37.3
	REL . HUM. PERCENT																																				
4051.00 FEET MSL 0915 HRS M§T 9	TEMPERATURE AIR DEWPOINT DEGREES CENTIGHADE	-57.3	-57.9	-58.7	-59.5	-60.5	-61.0	-61.0	-60.5	0.09-	129.4	500.0	200	-57.7	-57.B	-57.9	-58.0	-58.0	-58.1	2.00	0.75	-56.0	-55.2	-54.3	-53.4	-51.7	-50.8	6.65-	. 1.61-	-49.3	149.0	7.64	1.64-	0.63-	-48.8	-48.2	-47.6
TUDE.	PRESSURE MILLIBARS D	6.09	59.4	58.0	9.95	55.3	53.9	52.7	51.4	20.5	100	20014	5.54	44.0	4.5.4	45.4	41.4	t.05	30.00	37.6	26.7	35.9	35.0	34.2	33.4	25.0	31.1	30.4	29.7	29.0	28.4	27.7	26.5	25.9	25.3	24.7	24.2
STATION ALTITUDE 2 MAY 79 ASCENSION NO.	GEUMETRIC ALTITIDE MSL FEET	0.000+9		65000.0	65590.0	0.00099		67000.0	0.00574	68000.0	38	0.0000	20000	70500-0	21000.0	71500.0		72500.0	735000	74000	74500.0	75000-0	75500.0	75000.0	0.00507	77500.0	74000.0	78500.0	79000-0	29500.0	0.0000	0.0000	81500-0	82000-0	62500.0	83000.0	43500.0

STATION ALT 2 MAY 79 ASCENSION N	17UDE	4051.00 FEET MSL 0915 HRS MST	T MSL MST		UPPER AIR UATA 1220030049 Jallen	ATA 24		GEODETI 33. 106.	GEODETIC COONDINATES 33.16712 LAT DEG 106.49511 LON DEG	
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	DEGR	TEMPERATURE R DEWPOINT EES CENTIGKADE	REL . HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION S DEGREES(TW) K	SPEED KNOTS	INDEX OF REFRACTION	
84000.0	~	0.74-			36.4		540.4	17.1	1.000008	
94500.0		1.01			35.5		240.1	15.4	1.000008	
950000	N 0	40.0			34.6	587.4	245.6	13.7	1.000008	
00000	3 0	165.0			43.0	2000	242.5	1.21	1.00000	
86500.0	, co	-45.3			32.2		243.4	6.5	1.000007	
87000.0	~	-45.6			31.6		242.0	8.5	1.000007	
97500.0	8	-45.9			30.9		241.4	7.5	1.000007	
98000.0	-	0.94-			30.2		241.2	7.0	1.000007	
68500.0	-	-42.9			29.5	587.2	241.0	6.5	1.000007	
9.0000	-	145.9			28.9	587.3	240.0	7.1	1.000006	
89500.0	-	-45.0			28.5	587.3	238.2	11.3	1.000006	
0.00004		145.8			27.6	587.4	237.4	15.5	1.000006	
0.0000	-	145.8			56.9	587.4	230.9	19.8	1.000006	
0.00016	~	-45.8			26.3	587.5	535.6	21.4	1.000006	
		-45.7			25.7	587.5	234.0	22.2	1.000006	
92000.0	7	-45.7			25.2	587.6	232.5	23.0	1.000006	
		-45.6			54.6	587.0			1.000005	
93000.0	-	-45.6			24.0	587.7			1.000005	
93500.0	-	-45.6			23.5	587.7			1.000005	
0.000+6		-45.5			23.0	587.8			1.000005	
94500·0	4	-45.5			12	0)			1.000005	
95000.0	*	-45.5			21.9	587.9			1.000005	
¥5500.0		145.4			21.4	567.9			1.000005	

MRN SIGNIFICANT LEVEL DATA	JALLEN
STATION ALTITUDE 4051.00 FEET MSL	Z MAY 79 0915 HRS MST ASCENSION NO. 49

GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG

GEOPOTENTIAL		GNIA	DATA			TEMPERATINE	
ALTITUDE DECAMETENS	DIRECTION DEG (TN)	SPEED	N-S-M-S	R S S	DEW PT DEP	AIR DEG C	PRESSURE MILLIBARS
2902.	***6666	***6666	***6666-	*** 6666-	66	-45.4	1.390+1
2660.	241.	*	۶.	'n.	66	0.94-	2.000+1
2602.	245.	•	2.	'n	66	6.44-	2.180+1
-9642	246.	10.	•	6	66	0.61-	2.550+1
2392.	246.	•	'n	•	66	4.64-	3.000+1
2240	273.	'n	ė	ŕ	66	-58.5	3.800+1
5130.	569.	٠,	•	۶.	66	-57.7	4.520+1
2067.	265.	۶.	•	2.	66	-59.9	5.000+1
-0702	. 462	•	-	٠,	66	-61.3	5.340+1
1945.	309.	'n	-5.	۶.	66	-57.2	6.080+1
1910	332.	;	;	2.	66	-61.5	6.430+1
1857.	32.	;	÷	-5.	66	-61.3	7.000+1
1743.	231.	•	'n	•	66	-57.7	8.400+1
1631.	. 452	20.	•	19.	66	-50.7	1.000+2

\*\* WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

MILLIBARS FEET  850.0 4705. 800.0 6393. 750.0 11969. 550.0 11969. 550.0 14659. 550.0 18698. 450.0 24104. 350.0 24104. 350.0 39348. 175.0 42104. 150.0 42104. 150.0 45252. 100.0 53512. 800.0 64077. 50.0 64077. 50.0 64077. 50.0 64077.	AIR			NOT JUNE TO	SPEED
	DEGREES	CENT16RADE		0	
	18.0	1.9	34.	205.5	18.5
	13.3	1.1	43.	227.5	20.0
	8.4	*:	54.	228.0	22.1
	2.8	-6.1	55.	234.5	23.0
	-1.0	-23.2	17.	235.7	39.4
	-3.0	-28.4	12.	245.3	.43.0
	-8.0	-32.3	12.	242.0	53.0
	-14.4	-36.7	13.	246.3	51.8
	-20.7	9.04-	14.	546.4	62.1
	-27.8	-45.7	10.	246.3	76.0
	-33.9	-55.6	***6	250.3	80.2
	-41.7			247.0	61.2
	-52.0			243.7	83.3
	-58.2			540.9	74.0
	-59.3			229.1	9.09
	-61.2			245.2	34.6
	-63.1			252.4	64.3
	50.7			253.7	38.5
	-58.7			111.7	6.1
	-61.3			33.5	8.1
	-57.6			300.7	5.3
	50.3			204.7	3.5
	-58.1			274.8	2.0
	4.64-			240.0	12.1
	-48.5			246.0	19.0
	-46.0			241.3	7.3
15.0 93541.	-45.5				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

ALTITUDE	ON ALTITUDE 4051.00 FEET MSL	HSF	
2	DOIS HRS MS	7.	

. 4051.00 FEET MSL 0915 HRS MST 49	T MSL MST	Z	MANDATORY LEVELS 1220030049 Jaleh		6EODETIC (33.16)	GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG
DIRECTION DEG (TN)	WIND DATA SPEED NA MPS MF	DATA N-S MPS	₩. 1-Q	DEW PT DEP	TEMPERATURE AIR DEG C	PRESSURE MILLIBARS
***6666	***6666	***6666-	***6666-	66	-45.5	1.500+1
241.	;	2.	'n	66	0.94-	2.000+1
246.	10.	. +	.6	66	-48.5	2.500+1
246.	•	3.	•	66	1.61-	3.000+1
275.	÷	-0-		66	-58.1	4.000+1
265.	.5	•	,,	65	-59.9	5.000+1
301.	÷	-1.	2.	66	-57.6	6.000+1
34.	;	.3.	-,-	66	-61.3	7.000+1
112.		1.	'n	66	-58.7	8.000+1
254.	20.	• •	19.	66	-50.7	1.000+2
252.	33.	10.	32.	66	-63.1	1.250+2
242.	16.	.8	16.	66	-61.2	1.500+2
229.	26.	17.	40,	66	-59.3	1.750+2
241.	38.	19.	33.	66	-58.2	2.000+2
244.	43.	19.	36.	66	-52.0	2.500+2
247.	42.	16.	36.	66	-41.7	3.000+2
250.	***	15.	42.	22	-33.9	3.500+2
246.	39.	16.	30.	18	-27.8	4.000+2
246.	32.	13.	29.	20	-20.7	4.500+2
246.	27.	::	. 47	22	-14.4	5.000+2
243.	27.	13.	54.	77	-8.0	5.500+2
245.	22.	.6	.02	52	-3.0	6.000+2
236.	20.	11.	17.	22	-1.0	6.500+2
235.	12.	7.	10.	90	2.8	7.000+2
228	- 1 -	a	п	00	4	2.50040

GEOPOTENTIAL ALTITUDE UECAMETENS

2851. 2560. 2511. 2532. 2207. 2207. 2507. 1953. 11199. 1199. 1199. 1199. 1199. 1199. 1199. 1199. 1199. 1199. 1199. 1199.

| 2 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 00000000000000000000000000000000000000 | 25<br>25<br>25<br>25<br>26<br>26<br>26<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16<br>16 | 30.<br>24.<br>24.<br>24.<br>17.<br>10.<br>6.<br>4. | 16.<br>11.<br>11.<br>11.<br>7.<br>9.<br>9. | 39.<br>32.<br>27.<br>22.<br>26.<br>12.<br>11.<br>10. | 246.<br>246.<br>245.<br>245.<br>245.<br>236.<br>227.<br>206. |
|---|--|--|--|--|--|--|
| 7.000+2                                 | 2.8                                    | 0 8 5  | 10.  |  | 12.  | 235.   |
| 6.000+2                                 | -3.0                                   | 52   | 50.  | •  | 22.  | 245.   |
| 5.500+2                                 | -8.0                                   | 54   | 54.  | 13.  | 27.  | 243.   |
| 5.000+2                                 | -14.4                                  | 22   | .47  |  | 27.  | 246.   |
| 4.500+2                                 | -50.7                                  | 50   | .62  | 13.  | 32.  | 546.   |
| 4.000+2                                 | -27.8                                  | 10   | 30.  | 16.  | 39.  | 246.   |
| 3.500+2                                 | -33.9                                  | 22   | 42.  | 15.  | . * *  | 250.   |
| 3.000+2                                 | -41.7                                  | 66   | 36.  | 16.  | 45.  | 247.   |
| 2.500+2                                 | -52.0                                  | 66   | 36.  | 19.  | 43.  | 244.   |
| 2.000+2                                 | -58.2                                  | 66   | 33.  | 19.  | 38.  | 241.   |
| 1.750+2                                 | -59.3                                  | 66   | *07  | 17.  | 56.  | 229.   |
| 1.500+2                                 | -61.2                                  | 66   | 16.  |  | 16.  | 242.   |
| 1.250+2                                 | -63.1                                  | 66   | 32.  | 10.  | 33.  | 252.   |
| 1.000+2                                 | -50.7                                  | 56   | 19.  | •  | 20.  | 254.   |
| 8.000+1                                 | -58.7                                  | 55   | ÷  | :  | 3.   | 112.   |
| 7.000+1                                 | -61.3                                  | 56   | -4.  | .3.  | ;  | 34.  |

| DATA              |            |       |
|-------------------|------------|-------|
| SIGNIFICANT LEVEL | 1220170017 | ACCMC |

SEODETIC COOKDINATES 33.64686 LAT DEG 106.58581 LON DEG

| REL . HUM.<br>PERCENT             | 88888644466666666666666666666666666666   |
|-----------------------------------|--|
| RATURE<br>DEWPOINT<br>CENTIGRADE  | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| TEMPER<br>AIR C<br>DEGREES        | 44   |
| GEOMETRIC<br>ALTITUDE<br>MSL FEET | 44100.6<br>5037.6<br>8177.9<br>9987.4<br>11707.6<br>11707.6<br>113894.1<br>13894.1<br>13894.1<br>13894.1<br>13894.1<br>138640.1<br>277793.0<br>277793.0<br>277793.0<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>28777979.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779.5<br>287779. |
| PRESSURE<br>MILLIBARS             | 84494444444444444444444444444444444444   |

| STATION AL<br>2 MAY 79<br>ASCENSION | TITUDE 47             | 00.63 FEE              | ET MSL<br>MST                      |            | UPPER AIR D<br>122017001<br>AFSWC | 7 T.           |                          | 33.<br>106. | C COORDINATES<br>64686 LAT DEG<br>58581 LON DEG |
|-------------------------------------|-----------------------|------------------------|------------------------------------|------------|-----------------------------------|----------------|--------------------------|-------------|---|
| GEOMETRIC<br>ALTITUDE<br>MSL FEET   | PRESSURE<br>MILLIBARS | TEMP<br>AIR<br>DEGREES | PERATURE<br>DEMPOINT<br>CENTIGRADE | REL . HUM. | DENSITY S<br>GMZCUBIC<br>METER    | SOUND<br>KNGTS | DIRECTION<br>DEGREES(IN) | SPEED       | INDEX<br>OF<br>REFRACTION                       |
| .00                                 | 64                    | 0                      | 5.8                                | 0          | . 400                             | 6.899          | 240.0                    | 6.6         | .00026  |
| .00                                 | .04                   |                        | 3.0                                | 8          | . 50                              |                |                          |             | .00025  |
| 00                                  | 52.                   | è                      | 5.4                                | .0         | 92.                               | 10             |                          |             | .00025  |
| .00                                 | 10.                   | +                      | 2.0                                | 'n         | 19.                               | -              |                          |             | .00025  |
| .00                                 | .56                   | 5                      | 1.6                                | å          | . 99                              | 0              |                          |             | .00024  |
| 00                                  | 61.                   | -                      | 1.1                                | 0          | 54.                               | m              |                          |             | .00024  |
| .0:                                 | 67.                   | 0                      | 0.                                 | i          | 15                                | 0              |                          |             | .00024  |
| .00                                 | 53.                   |                        | 0                                  | 50         | 30.                               | *              |                          |             | .00023  |
| .00                                 | 39.                   |                        | 2                                  | 0          | 18.                               | 3              | 29.                      | 'n          | *00023  |
| .00                                 | 56.                   |                        | 3                                  | 1          | .50                               |                | 17                       | 5           | .00023  |
| .00                                 | 12.                   |                        | 5                                  | 5          | 03.                               |                | 10                       | 9           | .00022  |
| .00                                 | .66                   |                        |                                    | 8          | 81.                               | 7              | 20.                      | 0           | .00022  |
| 00                                  | 86.                   |                        |                                    | 3          | .69                               | .0             | 17                       | 0           | .00021  |
| .00                                 | 13.                   |                        |                                    | :          | 57.                               | :              | 57                       | 10          | .00021  |
| .0                                  | .19                   | :                      |                                    | 8          | 45.                               | oi.            | 25.                      |             | .00020  |
|                                     | .8                    | å                      | 12.                                |            | 34.                               | :              | 60                       | 0           | .00019  |
| .00                                 | 36.                   | ·                      | 18.                                | 8          | 18.                               | :              | 32.                      | r.          | .00019  |
| 13000.                              | 54.                   | ·                      | 23.                                | 8          | 05.                               | -              | 4 40                     | C.          | .00018  |
| .00                                 | 15.                   | ÷                      | 23.                                |            | . 68                              | 0              | 0.0                      |             | .00018  |
| 0                                   | .000                  |                        | 24.                                |            | .91                               | 7              | 000                      | rin         | .00017  |
|                                     | 100                   |                        |                                    |            |                                   | n              | 000                      |             | .00017  |
| 000                                 | : 3                   | 10                     | 200                                | , a        |                                   |                | 000                      |             | .00017  |
| 0 0                                 | 52.                   |                        | 28.                                | 0          | 30                                | : .            | 3 1                      | 9 0         | 31000   |
|                                     | 1                     |                        | 000                                | 0          | 200                               | ;              | 1 1                      |             | 91000   |
| .00                                 | 33                    |                        | 30.                                | 6          | 11                                |                | t                        | : :         | 000016  |
| 17500.0                             | 523.5                 | -13.0                  | -31.2                              | 19.9       | 7.007                             | 620.5          | 244.1                    | 60.1        | 1.000159  |
| 00                                  | 13.                   | ;                      | 32.                                | 6          | .68                               | 7              | 43.                      | 6           | .00015  |
| .00                                 | 03.                   | ;                      | 33.                                | 8          | 77.                               | 0              | 43.                      | 8           | .00015  |
| 0                                   | 95.                   | ŝ                      | 34.                                | 8          | 67.                               | ;              | 43.                      | 6           | .00015  |
| .00                                 | 65                    | :                      | 35                                 | 8          | 20.                               | 'n             | 43                       | ċ           | .00014  |
| .00                                 | 0                     |                        | 36.                                | 0,         | .0                                | :              | 43.                      | ·           | .00014  |
|                                     |                       | 5                      | 36.                                | 6          | 30.                               | •              | 5                        | 2           | .00014  |
| •                                   |                       |                        |                                    |            | .07                               | 0              | ?                        | ÷           | .00014  |
| 000                                 | 1 5                   |                        | 200                                |            |                                   | :              | 9                        | 1:          | .00013  |
|                                     |                       |                        |                                    | : :        | 0 0                               | •              | , ,                      | ٠.          | 21000   |
|                                     | 2                     |                        | : -                                | : :        | 0 1                               |                | , ,                      |             | 21000   |
| .0                                  | .60                   |                        |                                    |            | 200                               |                | רו                       |             | 2000  |
| .00                                 | .00                   |                        |                                    |            | 67                                |                | 1                        |             | 21000   |
|                                     |                       |                        |                                    |            |                                   | :              |                          |             | 34000   |

UPPER AIR DATA 1220170017

ELEVATION ANGLES. AND AZIMUTH RAK MISSING 2 OUF. INVALID DATA ONIM

| UPPER AIR DATA | 1220170017 | AFSWC             |
|----------------|------------|-------------------|
|                | MSL        |                   |
|                | FEET       | IRS MS            |
|                | 4700.63    | 1 0905 F          |
|                | ALTITUDE   | T 79 0905 HRS MST |
|                | Z          | 7                 |

GEODETIC COONDINATES 33.64686 LAT DEG 106.58581 LON DEG

| SPEED OF WIND DATA INDEX SOUND DIRECTION SPEED OF KNOTS DEGREES(TN) KNOTS REFRACTION | .9 244.4 90.5 1. | 244.6 91.5 1. | 245.6 91.3 1. | 246.5 91.1 1. | 247.6 93.4 1. | .3 248.6 . | .6 248.9 97.0 1. | .9 249.1 98.4 1. | .3 249.0 97.8 1. | 248.5 96.0 1 | 248.0 94.4 1. | 593.5 247.1 95.8 1.000103 | 245.3 94.9 | 0 244.6 96.9 1. | 5 244.1 99.1 1. | .1 243.7 101. | 243.5 102.6 1 | 243.5 103.1 1. | · T 1.001 9.642 | 2 244.0 101.7 | 4 244.2 100.1 1 | .2 244.1 97.1 1. | .5 244.0 93.7 1. | .0 243.7 91.7 1. | .2 243.3 90.1 1. | 242.9 69.4 1 | 242.2 88.0 1. | 9 241.7 86.0 1. | 1 241.1 84.0 1. | 82.4   | 238.0 00.0 1. | 237.7 80.2 | 7 237.3 80.2 1 | .3 237.6 79.0 1. |  |
|--|------------------|---------------|---------------|---------------|---------------|------------|------------------|------------------|------------------|--------------|---------------|---------------------------|------------|-----------------|-----------------|---------------|---------------|----------------|-----------------|---------------|-----------------|------------------|------------------|------------------|------------------|--------------|---------------|-----------------|-----------------|--------|---------------|------------|----------------|------------------|--|
| DENSITY S<br>GM/CUBIC<br>METER   | 557.6            | 548.3         | 538.9         | 529.6         | 520.6         | 512.3      |                  |                  | 487.8            | 479.7        |               | 463.8                     |            | 440.1           | 432.3           | 454.6         | 417.1         | 1.604          | 100             | 387.5         | 379.6           | 371.0            | 362.0            |                  | 346.8            | 139.7        | 325.8         | 319.1           | 312.4           | 305.6  | 293.0         | 286.6      | 279.3          | 272.1            |  |
| REL.HUM.<br>PERCENT  | 20.5             | 50.4          | 50.6          | 20.8          | 21.0          | 21.4       | 21.8             | •                | 16.5**           | N            | *6.           |                           |            |                 |                 |               |               |                |                 |               |                 |                  |                  |                  |                  |              |               |                 |                 |        |               |            |                |                  |  |
| TEMPERATURE<br>R DEWPOINT<br>EES CENTIGRADE  | -43.9            | 9.44-         | 1.81-         | -46.1         | 6.94-         | -47.9      | -48.9            | -50.7            | -53.5            | -56.6        |               | -65.5                     |            |                 |                 |               |               |                |                 |               |                 |                  |                  |                  |                  |              |               |                 |                 |        |               |            |                |                  |  |
| TEMP<br>AIR<br>DEGREES   | -28.1            | -29.0         | -20.0         | -31.0         | -32.0         | -33.3      | -34.7            | -35.0            | -37.3            | -38.5        | -39.8         | -41.0                     | 163.4      | 9.44-           | -45.7           | 8.94-         | 0.64          | 149.1          | 3000            | -52.1         | -52.7           | -52.9            | -52.7            | -53.0            | -53.7            | 24.5         | -55.5         | -56.2           | -56.7           | 57.5   | -58.5         | -58.9      | -58.5          | -58.1            |  |
| PRESSURE   | 392.5            | 384.2         | 376.1         | 368.2         | 360.4         | 352.7      | 345.2            | 337.7            | 330.3            | 323.0        | 316.0         | 2000                      | 295.5      | 288.8           | 282.2           | 275.8         | 269.6         | 262.5          | 251.6           | 245.8         | 240.1           | 234.6            | 229.1            | 223.8            | 218.5            | 208.4        | 203.5         | 198.8           | 194.0           | 189    | 180.5         | 176-3      | 172.1          | 168.0            |  |
| GEUMETRIC<br>ALTITUDE<br>MSL FEET  | ÷                | ÷             | :             | ÷             | •             |            | ė                |                  |                  | 29000.0      | ÷             | 305000                    |            |                 | :               | ÷             | 0             |                | : :             | 35000.0       |                 |                  | 30500.0          |                  | •                | 38530-0      | 390000        | ÷               | 0.0000+         | 0.0000 |               | :          | 250            | 43000-0          |  |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

| 777  | יונה שפר                          | SOLITION NOTICE   |
|------|-----------------------------------|-------------------|
| 1001 | CTATTON ATTITION MOON AT BEET ME! | STATTON AT TITION |
|      |                                   |                   |

| DA          | 1017 |      |
|-------------|------|------|
| AIR         | 0170 | u    |
| UPPER AIR D | 122  | AFSW |
|             |      |      |

STATION ALTITUDE 4700.63 FEET MSL. 2 MAY 79 0905 HRS MST ASCENSION NO. 17

GEODETIC COORDINATES 33.64686 LAT DEG 106.58581 LON DEG

| GEOMETRIC            | PRESSURE  |         | TEMPERATURE            | REL . HUM. | DENSITY           | SPEED OF | WIND DATA                | TA    | INDEX            |
|----------------------|-----------|---------|------------------------|------------|-------------------|----------|--------------------------|-------|------------------|
| ALTITUDE<br>MSL FEET | MILLIBARS | DEGREES | DEWPOINT<br>CENTIGRADE | PERCENT    | GM/CUBIC<br>METER | SOUND    | UIRECTION<br>DEGREES(TN) | SPEED | OF<br>REFRACTION |
| 64500.0              | 1 59.4    | -58.3   |                        |            | 4.96              |          | 281.0                    | 9.1   | 1.000021         |
| <b>65000.</b>        |           | -58.5   |                        |            | 94.5              |          | 265.5                    | 9.6   | 1.000021         |
| 65500.               |           | -58.6   |                        |            | 92.0              |          | 251.4                    | 10.1  | 1.000020         |
| 900099               |           | -58.8   |                        |            | 89.6              |          | 239.8                    | 11.4  | 1.000020         |
| 06500.               |           | -59·u   |                        |            | 87.8              |          | 236.8                    | 11.0  | 1.000020         |
| 0.00020              |           | -59.1   |                        |            | 85.8              |          | 237.6                    | 9.5   | 1.000019         |
| 67500.0              |           | -59.3   |                        |            | 83.8              |          | 238.8                    | 8.0   | 1.000019         |
| 000000               |           | -59.5   |                        |            | 81.9              |          | 244.0                    | 6.3   | 1.000018         |
| •8500·               |           | -59.3   |                        |            | 79.8              |          | 262.1                    | 4.7   | 1.000018         |
| 000060               |           | -59.1   |                        |            | 77.9              |          | 292.6                    | 3.9   | 1.000017         |
| 1.00260              |           | -58.9   |                        |            | 75.9              |          |                          |       | 1.000017         |
| 70000-               |           | -58.6   |                        |            | 74.1              |          |                          |       | 1.000016         |
| 70500-               |           | -58.4   |                        |            | 72.2              |          |                          |       | 1.000016         |
| 71000.0              |           | -58.2   |                        |            | 4.07              |          |                          |       | 1.000016         |
| 71500-(              |           | -58.0   |                        |            | 68.7              |          |                          |       | 1.000015         |
| 72000-0              |           | -57.8   |                        |            | 67.0              |          |                          |       | 1.000015         |
| 72500.0              |           | -57.5   |                        |            | 65.3              | 572.1    |                          |       | 1.000015         |
| 3                    |           |         |                        |            |                   |          |                          |       |                  |

| PRESSURE  | PRESSURE GEQPOTENTIAL |                | TEMPERATURE            | REL . HUM . | WIND                     | WIND DATA           |  |
|-----------|-----------------------|----------------|------------------------|-------------|--------------------------|---------------------|--|
| MILLIBARS | FEET                  | AIR<br>DEGREES | DEWPOINT<br>CENTIGRADE | PERCENT     | DIRECTION<br>DEGREES(TN) | N SPEED<br>N) KNOTS |  |
| 0.008     |                       | 13.1           | 1.7                    | 46.         | 0.6666                   | XX0.9999            |  |
| 750.0     |                       | 7.8            | 2                      | 57.         | 230.1                    | 15.5                |  |
| 700.0     |                       | 5.4            | 6:-                    | 79.         | 220.9                    | 18.9                |  |
| 0.059     |                       | -2.6           | -11.2                  | 52.         | 228.8                    | 34.8                |  |
| 0.009     |                       | -3.6           | -24.6                  | 16.         | 237.0                    | 40.3                |  |
| 550.0     | 16237.                | 1-6-           | -28.8                  | 19.         | 244.0                    | 51.8                |  |
| 200.0     |                       | -15.0          | -33.9                  | 18.         | 243.4                    | 58.9                |  |
| 450.0     |                       | -21.4          | -38.1                  | 20.         | 243.2                    | 72.0                |  |
| 0.00+     |                       | -27.2          | -43.2                  | 20.         | 244.2                    | 4.68                |  |
| 350.0     |                       | -33.8          | -48.3                  | 22.         | 248.7                    | 90.1                |  |
| 300.0     |                       | -42.7          |                        |             | 545.9                    | 93.6                |  |
| 250.0     |                       | -51.7          |                        |             | 243.8                    | 102.7               |  |
| 200.0     |                       | -56.0          |                        |             | 241.9                    | 80.6                |  |
| 175.0     |                       | -58.8          |                        |             | 237.6                    | 80.2                |  |
| 150.0     |                       | -58.1          |                        |             | 241.8                    | 59.5                |  |
| 125.0     |                       | 6.09-          |                        |             | 258.0                    | 41.9                |  |
| 100.0     |                       | -59.7          |                        |             | 256.1                    | 45.9                |  |
| 0.08      |                       | -56.4          |                        |             | 243.4                    | 4.9                 |  |
| 70.0      |                       | -62.5          |                        |             | 9.3                      | 5.4                 |  |
| 0.09      |                       | -58.5          |                        |             | 287.8                    | 0.6                 |  |
| 20.0      |                       | -59.5          |                        |             | 245.6                    | 6.1                 |  |

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4700.63 FEET MSL 122 2 May 79 0905 HRS MST AFSY ASCENSION NO. 17

MRN MANDATORY LEVELS 1220170017 AFSWC

GEODETIC COOKDINATES 33.64686 LAT DEG 106.58581 LON DEG

| GEO | GEOPOTENTIAL |           | WIND DATA | DATA     |            |            | TEMPERATURE |           |  |
|-----|--------------|-----------|-----------|----------|------------|------------|-------------|-----------|--|
| ¥   | ALTITUDE     | DIRECTION | SPEED     | S-N      | E-*        | DEW PT DEP | AIR         | PRESSURE  |  |
| OE. | CAMETERS     | DEG (TN)  | MPS       | MPS      | MPS        | DEG C      | DEG C       | MILLIBARS |  |
|     | 2068.        | 246.      |           | 1.       | 3.         | 66         | -59.5       | 5.000+1   |  |
|     | 1953.        | 288.      | ŝ         | 7        | ÷          | 66         | -58.5       | 6.000+1   |  |
|     | 1857.        | .6        | 3.        | -3.      | -0-        | 66         | -62.5       | 7.000+1   |  |
|     | 1774.        | 243.      | 3.        | :        | <b>.</b> . | 66         | -56.4       | 8.000+1   |  |
|     | 1631.        | 256.      | 22.       | 5.       | 21.        | 66         | -59.7       | 1.000+2   |  |
|     | 1493.        | 258.      | 22.       | ;        | 21.        | 66         | 6.09-       | 1.250+2   |  |
|     | 1379.        | 242.      | 31.       | 14.      | 27.        | 66         | -58.1       | 1.500+2   |  |
|     | 1282.        | 238.      | 41.       | 22.      | 35.        | 66         | -58.8       | 1.750+2   |  |
|     | 1197.        | 242.      | 45.       | 21.      | 39.        | 66         | -56.0       | 2.000+2   |  |
|     | 1054.        | 244.      | 53.       | 23.      | 47.        | 66         | -51.7       | 2.500+2   |  |
|     | 933.         | 246.      | 48.       | 20.      | ***        | 66         | -42.7       | 3.000+2   |  |
|     | 827.         | 249.      | .64       | 18.      | +0.        | 14         | -33.8       | 3.500+2   |  |
|     | 732.         | 244.      | 46.       | 20.      | 41.        | 16         | -27.2       | 4.000+2   |  |
|     | .949         | 243.      | 37.       | 17.      | 33.        | 17         | -21.4       | 4.500+2   |  |
|     | 568.         | 243.      | 30.       | 14.      | 27.        | 19         | -15.0       | 5.000+2   |  |
| :   | 495.         | 244.      | 27.       | 12.      | 24.        | 19         | 1.6-        | 5.500+2   |  |
| 35  | 427.         | 237.      | 22.       | 12.      | 19.        | 21         | -3.8        | 6.000+2   |  |
|     | 364.         | 229.      | 20.       | 13.      | 15.        | 60         | -2.6        | 6.500+2   |  |
|     | 304.         | 221.      | 10.       | 7.       | •          | 03         | 2.4         | 7.000+2   |  |
|     | 248.         | 230.      | •         |          | •          | 90         | 7.8         | 7.500+2   |  |
|     | 194.         | ***6666   | *** 6666  | ***6666- | *** 6666-  | ::         | 13.1        | 8.000+2   |  |
| :   | 7 100 0100   | TOWN TOWN |           |          |            | 22.010.00  |             |           |  |

\*\* WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.